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FINNT2 EVALUATION REPORT 1993



FINNISH TECHNOLOGY TRANSFER CENTER, FINNT2

JANUARY, 1994

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INTRODUCTION

This is the annual Evaluation Report of the Finnish Technology Transfer Center FinnT2 concerning the year 1993.

The establishment of FinnT2 was based on the Memorandum of Understanding between the Federal Highway Administration (FHWA), USA, and the Finnish National Road Administration (FinnRA) signed on May 19, 1993. This date was the first day of operation of FinnT2. However, preparations for establishing FinnT2, and also technology transfer measures, to some extent, already took place from the beginning of 1993.

FinnT2 realizes the international regional technology transfer center concept.

Operation Plan 1993 for FinnT2, made on March 2, 1993, is regarded as comparison material for this self-evaluation.

ON ACCOMPLISHMENTS IN GENERAL

As a whole, the tasks presented in the FinnT2 Operation Plan 1993 have been performed. Some of them were not performed right according to the planned time table but nevertheless well-timed taking the progress of operation in 1993 into consideration.

The tasks in the Operation Plan not totally performed:

- The draft marketing brochure was not made available to FHWA for comments before printing because of great hurry
- The Newsletter in Finnish, Tiennäyttäjä (edited by FinnRA's Public Relations Unit), appeared only 3 times in 1993 and its contents were not in accordance with the needs of FinnT2
- Two engineers did not come to work in FinnT2 because it was found needless during the U.S.delegation

visit to Finland in June-July

- The feasibility studies on establishing a T2 Center in one of the Baltic Countries and in one other Nordic Country: As to the Baltic Countries, the study was made jointly by FHWA and FinnT2 personnel. The study resulted in the conclusion that establishment of a T2 Center in each Baltic Road Administration is feasible. Also decisions on the establishment of the 3 centers has already been made (in the Technology Transfer Seminar in Helsinki on September, 21-22. As to the Nordic feasibility study, the joint exploring continues.
- FinnT2 Operation Plan 1994 and Vision will be completed in January 1994.

MAIN ACTIVITIES IN 1993

- R.Tapio and O.Nordenswan negotiated in January the Draft Memorandum of Understanding between FHWA and FinnRA and the Annual Work Plan 1993 for FinnT2
- J.Ikonen and T.Angervuori made on January, 13-23 a T2 study tour to the FHWA and T2 Centers in Maine, New Hampshire and Minnesota
- The publication "Teknologian siirto, T2-keskuksen perustaminen" (Technology Transfer, Establishing of T2 Center) appeared in the beginning of March
- Operation Plan 1993 for FinnT2 was drawn up in the beginning of March
- Memorandum of Understanding on Cooperation between FHWA and FinnRA was signed on May, 19 in Madrid and the operation of FinnT2 began
- FHWA's delegation (Bob Ford, Nelda Bravo and A.R. Van Meulebroecke) visited Finland between June, 9 and July, 7
- T2 Meeting was arranged in Tallin on June, 10 with representatives from FHWA, FinnRA and the Baltic Road Administrations

- FinnContact Nro 1 appeared in June
- FinnT2 made on June, 29 a proposal to the Baltic Countries' Road Administrations for establishing stronger technical ties in the transportation sector between the Baltic Countries, Finland and USA (decision of the Tallin meeting)
- Technology Transfer Seminar was held on September, 21-22 in Helsinki. It was decided that each Baltic Road Administration will establish a T2 Center within its organization during 1994.
- FinnT2 created a T2 contact person network in September within FinnRA Service Units
- FinnT2 made on October, 7 a proposal to the Baltic Road Administrations for the Work Plans 1994 for the T2 Centers to be established within those Road Administrations (decision of the Technology Transfer Seminar in Helsinki)
- FinnContact Nro 2 appeared in October
- A domestic T2 Cooperation Meeting, arranged by FinnT2, was held on November, 24 in Helsinki, also the FinnT2 Advisory Committee was composed
- Marketing brochures of FinnT2 in English and Finnish were published at the end of November
- The first meeting of the FinnT2 Advisory Committee was held on December, 22
- Highway transportation vocabulary Estonian-Finnish and Finnish-Estonian was published in December
- The material for FinnContact Nro 3 was sent to the printing house at the end of December

Emphasis was during the first year of operation given to the organizing of FinnT2 and establishing stronger technical ties within the highway transportation sector with the Baltic Road Administrations.

Highway transportation sector technology exchange itself was started between the parties involved, mainly by the following ways:

- Separated measures were taken (studies, reports and

- video cassettes sent) to transfer technology
- FinnContact, the quarterly newsletter in English was published by FinnT2 as international technology transfer media
 - FHWA furnished FinnT2 with publication consignments. FinnT2 delivered the publications further to the Baltic Road Administrations and its T2 contact persons within FinnRA for close examination and further measures.
 - Three major FinnRA reports (Taajamien keskustateiden kehittäminen, Liikenneturvallisuus kaavoituksessa and Pääväylät kaupunkialueilla) were totally translated into English by FinnT2 for Minnesota T2 Center at FHWA's expense
 - Student Projects Program (fact sheets with other relevant information on selected highway transportation subjects) was also started.

SUMMARY

Briefly, the operation of FinnT2 in 1993 is regarded as successful by FinnT2 itself, and also within FinnRA.

4.1.94 Jarmo Ilmarinen

COSTS OF FINNT2 ACTIVITIES IN 1993

Establishing and starting-up T2 Center (FinnT2) caused following expences, which were totally financed through FinnRA 1993 allocations.

1 USD = 5.7 FIM

COST COMPONENT	FIM	USD
Manpower Charge	794.232	139.339
Consultancy	20.079	3.523
Travel	59.868	10.503
Other	39.856	6.992
Internal Services	74.510	13.072
Costs Totally	988.545	173.429

In addition to these FinnRA allocations, FHWA has financed translation works of three FinnRA reports into English worth 58.593 FIM (=10.279 USD) in 1993 via FinnT2- Center.

The estimated costs in 1993 were slightly exceeded. The excess was 38.545 FIM, which is 6.763 USD. That was mainly caused by the fact that FinnT2- Center had more and wider activities than estimated in 1993.

The consultancy costs were significantly less than estimated, because FinnT2- Center could hire more FinnRA staff instead of private consultants. That is the explanation to higher manpower charge, too.

Operation Plan 1993 for
Finnish Technology Transfer Center (FinnT2)

Finnish National Road Administration
Construction and Maintenance

March 2, 1993

OPERATION PLAN 1993 FOR THE FINNISH TECHNOLOGY TRANSFER CENTER
(FINNT2)

Project: Establishing and Start-Up of FinnT2

Back- Traditional means to transfer highway transportation
ground: technology are not found sufficient. Technology transfer ought to be faster and more systematic. Federal Highway Administration (FHWA) of USA, T2 Centers in its states and Finnish National Road Administration (FinnRA) are wishing co-operation on which a memorandum of understanding was signed in September 1992 between FinnRA and FHWA.

The parties are united also by interest in the Baltic Countries and Russia.

The Board of Directors of FinnRA supposes an organized unit to be established to improve technology transfer.

Goal: The final objective is to reduce the often wide gap between research and practice by transferring know-how and experiences in the field of highway transportation technology. Then also overlapping research is avoided.

Nature of operation: FinnT2 will be an unit to transfer highway transportation technology internationally and nationally.

According to the general definitions of article II in the memorandum of understanding between FinnRA and FHWA negotiated in January 1993 the parties can, in addition to establishing FinnT2, pursue cooperation through ex-

change of highway-related information (eg. databases and publications), exchange of experts, establishment of similar technology exchange programs with third countries and undertake separate joint cooperative projects.

Technology exchange with Americans will during the year of operation be carried out with the Office of International Programs (OIP), Office of Technology Applications (OTA) and National Highway Institute (NHI) of FHWA and 10 selected T2 Centers in USA (Minnesota, New Hampshire, Maine, Vermont, Washington State, Wisconsin, Colorado, Wyoming, Michigan, Montana).

Domestic technology transfer will be developed within FinnRA and during the second half of the year also with the main public organizations in the transportation sector, that is with Ministry of Communications, Technical Research Center of Finland, Helsinki University of Technology, Tampere University of Technology and University of Oulu. Also technology transfer of these organizations with the U.S. T2 Centers and FHWA could take place through FinnT2.

The aim is to establish FinnT2 a permanent service organization in technology transfer of highway transportation technology. It is difficult to estimate the amount of foreign and domestic requests concerning exchange of information that FinnT2 will receive when its operation has become normal. The character of an American seems to be essentially more eager than that of a Finn to contact after having got a hint of a new interesting matter.

Choosing subjects and writing texts for quarterly English and Finnish information channels (Newsletter and Tiennäyttäjä) may in the future be nearly continuous activities.

Measures January

in 1993: R.Tapio and O.Nordenswan negotiate in FHWA the Draft Memorandum of Understanding between FHWA and FinnRA on highway transportation technology exchange and the Annual Work Plan for 1993 related to it

J.Ikonen and T.Angervuori make a technology transfer study tour to FHWA and to the T2 Centers in Maine, New Hampshire and Minnesota

February

Operation Plan of FinnT2 for 1993 is made

Electronic post connections to USA are tested

March

The publication "Teknologian siirto, T2-keskuksen perustaminen" (Technology Transfer, Establishing of T2 Center) based on Ikonen's and Angervuori's study tour in January appears

A draft for the marketing brochure of FinnT2 is prepared

Connection data in Esthonia, Latvia and Lithuania for T2 activity are collected

April

A plan for feasibility studies on establishing T2 Centers in one of the Baltic Countries and in one other Nordic Country is made

A selected English summary concerning FinnRA's training program 1993 is compiled

May

The memorandum of understanding between FinnRA and FHWA on cooperation is signed in Finland and the operation of FinnT2 begins

A draft of the marketing brochure for FinnT2 is made available to the representatives of FHWA

The organization chart of FinnT2 is made available to the representatives of FHWA

The plan for above-mentioned feasibility studies is made available to the representatives of FHWA for further measures and it is agreed on the financing of the studies

June

The marketing brochure for FinnT2 is published

The first English Newsletter (1/93) as an information channel directed towards USA is published

Tiennäyttäjä (2/93) as a domestic information channel is published, for the first time in accordance with the needs of FinnT2

An informative meeting on the activities of FinnT2 is arranged for Ministry of Communications, Technical Research Center of Finland, Helsinki University of Technology, Tampere University of Technology and University of Oulu and it is agreed on establishment of Advisory Committee

September

Newsletter (2/93) is published

Tiennäyttäjä (3/93) is published

Two engineers from Minnesota possibly come to work in FinnT2 for one year's period

October

The above-mentioned feasibility studies are completed

November

FinnT2 self-evaluation is made, operation plan for 1994 and vision are prepared

December

Newsletter (3/93) is published

Tiennäyttäjä (4/94) is published

Human re-sources: Full-time person in charge of the project and Executive Director of FinnT2 is Jarmo Ikonen. Main part-time human resources are Tapani Angervuori, Penelope Sala, Arto Tevajärvi and Juhani Siekkinen. Planned input in 1993 is totally 266 invoiced days.

Cost estimate: It is planned to spend FinnRA allocations FIM 950 000 in 1993. Detailed breakdown is presented on the project card attached.

Both FinnRA and FHWA pay the expenses of "basic exchange of information" such as expenses of means of communication. FinnRA pays the expenses of supplying its research reports with English summaries and essentially also with English picture and table texts. If the U.S. party wants a publication totally in English or a video cassette supplied with English voice, FHWA pays these extra costs.

The parties agree on cost division of separated joint projects case-by-case.

Other: If the U.S. party wants English tailor-made training courses arranged on any subject, the services of FinnRA's Institute for Highway and Maritime Education are available.

Extension of activities of FinnT2 to the municipalities and private sector in Finland is considered in 1994.

Name of the Project: Establishing and Start-up of T2 Center (FinnT2)

- Background and importance:** Traditional means to transfer road and transportation technologies are not found sufficient. Technology transfer ought to be faster and more systematic. Federal Highway Administration (USA), its T2 Centers and the Finnish National Road Administration have expressed their willingness to cooperate. Technology transfer requires establishing of an organized unit within FinnRA in order to transfer knowledge and experiences efficiently. The gap between researchers and users of their results will by technology transfer be reduced. The Board of Directors of FinnRA supposes the Unit to be established.
- Goal:** The goal is to create the tools for technology transfer and introduce them.
- Contents 1993:** FinnT2 Center will be organized and contacts in Finland and abroad created. English newsletter will be published three times in 1993. Research reports of FinnRA will in future have English summaries and English table, figure and picture texts. T2 E-mail connections will be in operation by the end of 1993. Exchange of work training videotape cassettes will be running. Means to inform of R&D results will be experimented. The measures in Annual Work Plan 1993 will be carried out.

Key person: Jarmo Ikonen

Cost estimate: 1 USD = 5.5 FIM

	Totally USD/3a	1992 USD	1993 USD	1994 USD
Manpower charge	270,538	20,545	111,083	138,909
Consultancy	78,545	0	36,364	42,182
Travel	23,091	7,455	7,273	8,364
Other	21,273	1,636	9,091	10,545
Internal Service	47,691	29,636	8,964	9,091
Totally	441,138	59,273	172,774	209,091

Time table: To be continued